

2-Oxo-4-phenylbutanoic acid Safety Data Sheet 2729100 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 03/31/2016 Version: 1.0

2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US) Hazard statements (GHS-US) Precautionary statements (GHS-US)	 GHS07 Warning H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation P261 - Avoid breathing dust/fume/gas/mist/vapors/spray P264 - Wash skin thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protection/fac P302+P352 - If on skin: Wash with plenty of soap and water P304+P340 - If inhaled: Remove person to fresh air and keep comfor P305+P351+P338 - If in eyes: Rinse cautiously with water for several lenses, if present and easy to do. Continue rinsing P312 - Call a POISON CENTER or doctor/physician if you feel unwer P321 - Specific treatment (see supplemental first aid instructions on P332+P313 - If skin irritation occurs: Get medical advice/attention P337+P313 - If skin irritation persists: Get medical advice/attention P362+P364 - Take off contaminated clothing and wash it before reu 	ortable for breathing al minutes. Remove contact ell this label)
GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US) Hazard statements (GHS-US)	 Warning H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation P261 - Avoid breathing dust/fume/gas/mist/vapors/spray P264 - Wash skin thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protection/fac P302+P352 - If on skin: Wash with plenty of soap and water P304+P340 - If inhaled: Remove person to fresh air and keep comfor P305+P351+P338 - If in eyes: Rinse cautiously with water for several lenses, if present and easy to do. Continue rinsing P312 - Call a POISON CENTER or doctor/physician if you feel unwer 	ortable for breathing al minutes. Remove contact
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GHS-US labeling lazard pictograms (GHS-US)		
GHS-US labeling		
GHS-US labeling		
GHS-US labeling	· •	
Full text of H-phrases: see section 16		
STOT SE 3 H335 - May cause respiratory	irritation	
kin Irrit. 2 H315 - Causes skin irritation ye Irrit. 2A H319 - Causes serious eye ir	itation	
Classification (GHS-US)		
2.1. Classification of the substance o	mixture	
SECTION 2: Hazard(s) identification	n	
mergency number	: (844) 523-4086 (3E Company - Account 10069)	
I.4. Emergency telephone number	(944) 522 4096 (2E Company, Associat 40060)	
Alachua, FL 32615 - United States of America ⁻ (386) 462-0788 - F (386) 462-7097 nfo@synquestlabs.com - www.synquestlabs.		
SynQuest Laboratories, Inc. P.O. Box 309		
I.3. Details of the supplier of the safe	ty data sheet	
	Scientific research and development	
Jse of the substance/mixture	: Laboratory chemicals Manufacture of substances	
I.2. Relevant identified uses of the su	bstance or mixture and uses advised against	
Other means of identification	: MFCD00969471	
Synonyms	: alpha-Carbonylphenylbutyric acid	
ormula	: C10H10O3	
Product code	: 2729-1-00	
CAS No	: 710-11-2	
	: Substance : 2-Oxo-4-phenylbutanoic acid	
Product form Substance name		

2-Oxo-4-phenylbutanoic acid Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

2.3.	Other hazards				
No additi	ional information available				
2.4.	Unknown acute toxicity (GHS US)				
Not appli	icable				
SECTI	ON 3: Composition/information	n on in	gredients		
8.1.	Substance				
Substand	ce type	: Mono	-constituent		
Name			Product identifier	%	Classification (GHS-US)
2-Oxo-4 (Main cor	l-phenylbutanoic acid nstituent)		(CAS No) 710-11-2	<= 100	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
ull text	of H-phrases: see section 16				· · · · ·
.2.	Mixture				
lot appli	icable				
SECTI	ON 4: First aid measures				
l.1.	Description of first aid measures				
irst-aid	measures general	where	e of accident or if you feel unwell, seek r possible). Move the affected personnel	away from the	contaminated area.
irst-aid	measures after inhalation		ove person to fresh air and keep comforta ation. Get medical advice/attention.	able for breathir	ng. If not breathing, give artificial
irst-aid	measures after skin contact	: Wash	with plenty of soap and water. Get medi	cal advice/atter	ntion.
irst-aid	measures after eye contact	prese	diately flush eyes thoroughly with water f nt and easy to do. Continue rinsing. Get	medical advice	/attention.
irst-aid	measures after ingestion		OT induce vomiting. Never give anything n out with water. Get medical advice/atter		unconscious person. Rinse
.2.	Most important symptoms and effect	s, both	acute and delayed		
sympton	ns/injuries		nost important known symptoms and effe nd/or in section 11.	cts are describ	ed in the labelling (see section
.3.	Indication of any immediate medical	attentio	n and special treatment needed		
reat syr	mptomatically.				
SECTI	ON 5: Firefighting measures				
.1.	Extinguishing media				
Suitable	extinguishing media		ol resistant foam. Carbon dioxide. Dry po priate for surrounding fire.	owder. Water sp	oray. Use extinguishing media
.2.	Special hazards arising from the sub	stance o	or mixture		
ire haza	ard	: Thern	nal decomposition generates: Carbon oxi	des.	
.3.	Advice for firefighters				
irefighti	ing instructions	: In cas	se of fire: Evacuate area.		
Protectio	on during firefighting		gas tight chemically protective clothing in a tight chemically protective clothing in a tus. For further information refer to sect		
SECTI	ON 6: Accidental release meas	ures			
6.1.	Personal precautions, protective equ	ipment	and emergency procedures		
General	measures		uate unnecessary personnel. Ensure ade ne gas, fumes, vapor or spray.	quate air ventil	ation. Do not breathe dust. Do not
.1.1.	For non-emergency personnel				
	ncy procedures	: Only o	qualified personnel equipped with suitable	e protective equ	uipment may intervene.
5.1.2. Protectiv	For emergency responders	: Do no	ot attempt to take action without suitable	protective equir	oment. For further information
			to section 8: "Exposure controls/personal		
.2.	Environmental precautions				

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

2-Oxo-4-phenylbutanoic acid Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 201

2012 / Rules and Regulation

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6.3. Methods and material for contain	nment and cleaning up
For containment	: Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.
Methods for cleaning up	Minimize generation of dust. Take up large spills with pump or vacuum and finish with dry chemical absorbent. Use explosion-proof equipment. Take up small spills with dry chemical absorbent. Sweep or shovel spills into appropriate container for disposal. Ventilate area.
Other information	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".
6.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and storage)
7.1. Precautions for safe handling	
Precautions for safe handling	: Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe dust, fumes, mist, spray, vapors. Wear personal protective equipment. Avoid contact with skin and eyes.
Hygiene measures	: Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, incl	uding any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use. Hygroscopic. Keep contents under inert gas.
Incompatible materials	: Refer to Section 10 on Incompatible Materials.
Storage area	: Store in dry, cool, well-ventilated area.
SECTION & Experime controls/p	
SECTION 8: Exposure controls/pe 8.1. Control parameters	
No additional information available	
8.2. Exposure controls	
Appropriate engineering controls	: Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Hand protection	: Protective gloves. 29 CFR 1910.138: Hand Protection.
Eye protection	: Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection.
Other information	: Safety shoes. 29 CFR 1910.136: Foot Protection.
SECTION 9: Physical and chemic	al properties
9.1. Information on basic physical ar	
Physical state	: Solid
Appearance	: Low melting solid.
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
pH	: No data available
Melting point	: 33 - 37 °C
Freezing point	. No dete aveilable

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Melting point	: 33 - 37 °C
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: No data available
Relative density	: No data available

2-Oxo-4-phenylbutanoic acid Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Relative vapor density at 20 °C	: No data available
Molecular mass	: 214.22 g/mol
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity
10.1. Reactivity
No additional information available
10.2. Chemical stability
The product is stable at normal handling and storage conditions.
10.3. Possibility of hazardous reactions
No additional information available
10.4. Conditions to avoid
Keep away from heat, sparks and flame.
10.5. Incompatible materials
Strong oxidizing agents.
10.6. Hazardous decomposition products
Under normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case fire, see Section 5.
SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: Not classified
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

SECT	ION 12: Ecological informatic	on		
12.1.	Toxicity			
No add	itional information available			
12.2.	Persistence and degradability			
No add	itional information available			
12.3.	Bioaccumulative potential			
No add	itional information available			
12.4.	Mobility in soil			
No additional information available				
12/08/20	016	EN (English US)	SDS ID: 2729100	4/6

2-Oxo-4-phenylbutanoic acid

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Other adverse effects 12.5.

No additional information available

SECTION 12: Dispessel considerations		
SECTION 13: Disposal considerations		
Waste treatment methods: RemovWaste disposal recommendations: Dispose	ve to an authorized incinerator equipped with se of contents/container in accordance with li- le the material as far as possible.	-
SECTION 14: Transport information		
Department of Transportation (DOT) In accordance with DOT Not regulated for transport TDG No additional information available		
Transport by sea No additional information available		
Air transport No additional information available		
SECTION 15: Regulatory information		
15.1. US Federal regulations All components of this product are listed, or excluded from Substances Control Act (TSCA) inventory except for:	n listing, on the United States Environmental	Protection Agency Toxic
2-Oxo-4-phenylbutanoic acid	CAS No 710-11-2	100%
This product or mixture does not contain a toxic chemical CFR §372.38(a) subject to the reporting requirements of s and 40 CFR Part 372.		
15.2. International regulations		
CANADA No additional information available		
EU-Regulations No additional information available		
National regulations		
2-Oxo-4-phenylbutanoic acid (710-11-2)	h Law)	
The second se	h Law)	
2-Oxo-4-phenylbutanoic acid (710-11-2)	h Law)	
2-Oxo-4-phenylbutanoic acid (710-11-2) Listed on the Japanese ISHL (Industrial Safety and Health	, 	ornia to cause cancer

Full text of H-phrases:

Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation

2-Oxo-4-phenylbutanoic acid

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

NFPA health hazard	: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.	
NFPA fire hazard	: 1 - Must be preheated before ignition can occur.	
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.	
HMIS III Rating		
Health	: 2 Moderate Hazard - Temporary or minor injury may occur	
Flammability	: 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)	
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.	

SDS US (GHS HazCom 2012)

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is offered solely for your consideration, investigation, and verification. It does not represent any guarantee of the properties of the product nor that the hazard precautions or procedures described are the only ones which exist. SynQuest shall not be held liable or any damage resulting from handling or from contact with the above product.